

Siemens PLM Connection

Teamcenter Report Builder and Teamcenter Reporting
and Analytics: An overview

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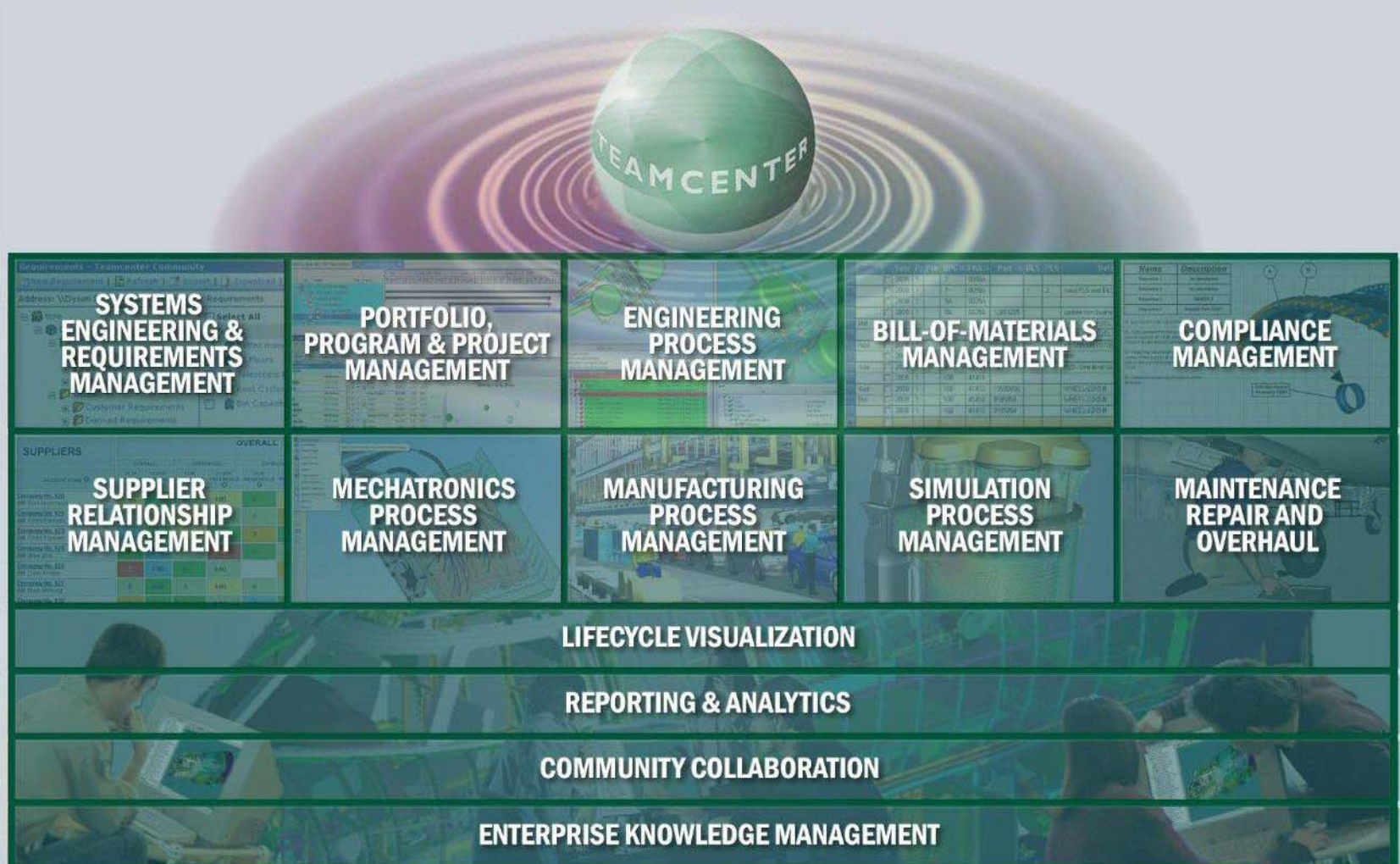
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Answers for industry.

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Teamcenter Digital Lifecycle Management Solutions



Objective and Outline

Objective:

- Overview of new reporting capabilities in Teamcenter
 - Report Builder
 - Teamcenter Reporting and Analytics

Outline:

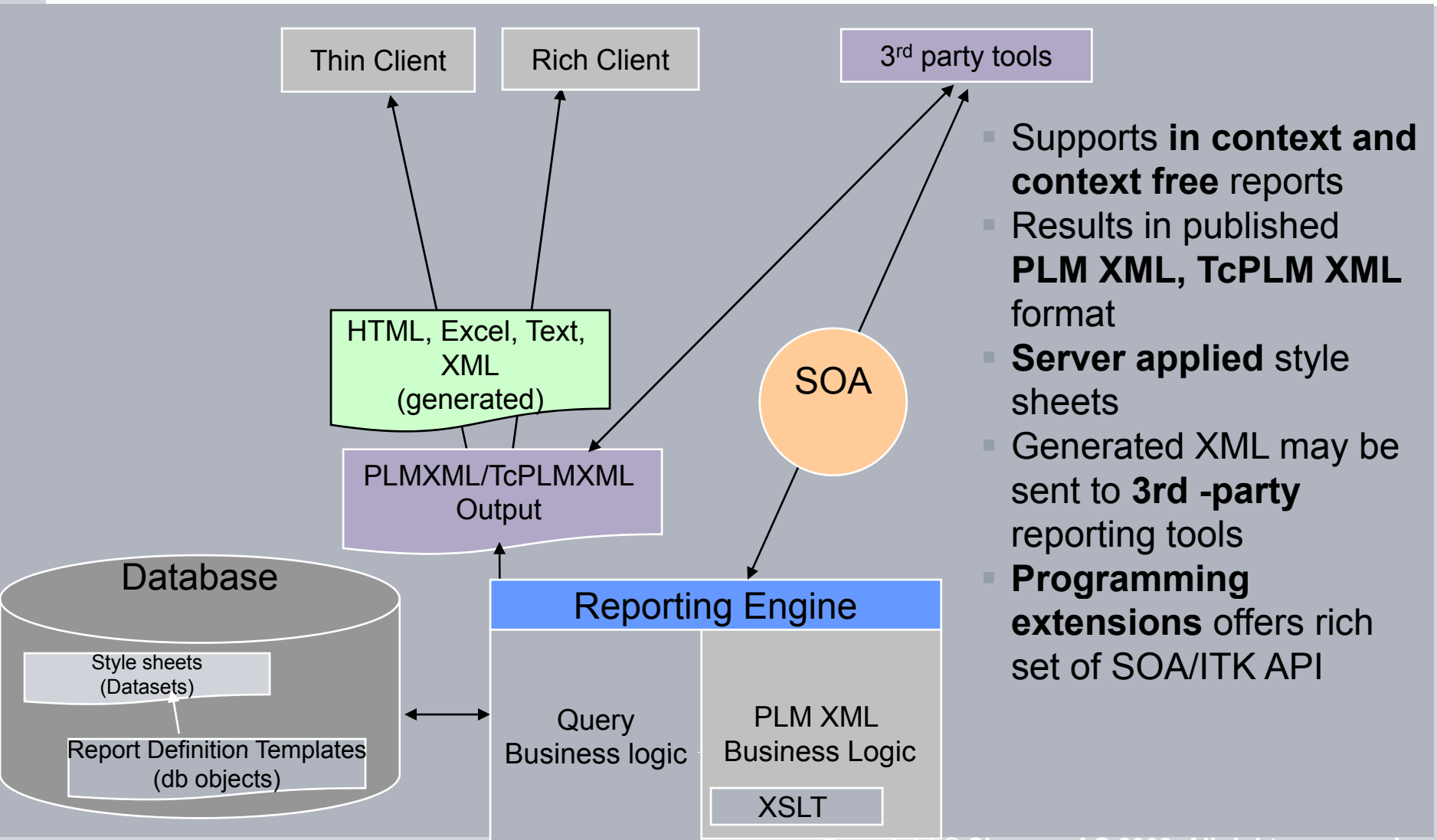
- Teamcenter - Core Reporting
- Report Builder
- Reporting and Analytics within Teamcenter



Teamcenter Reporting

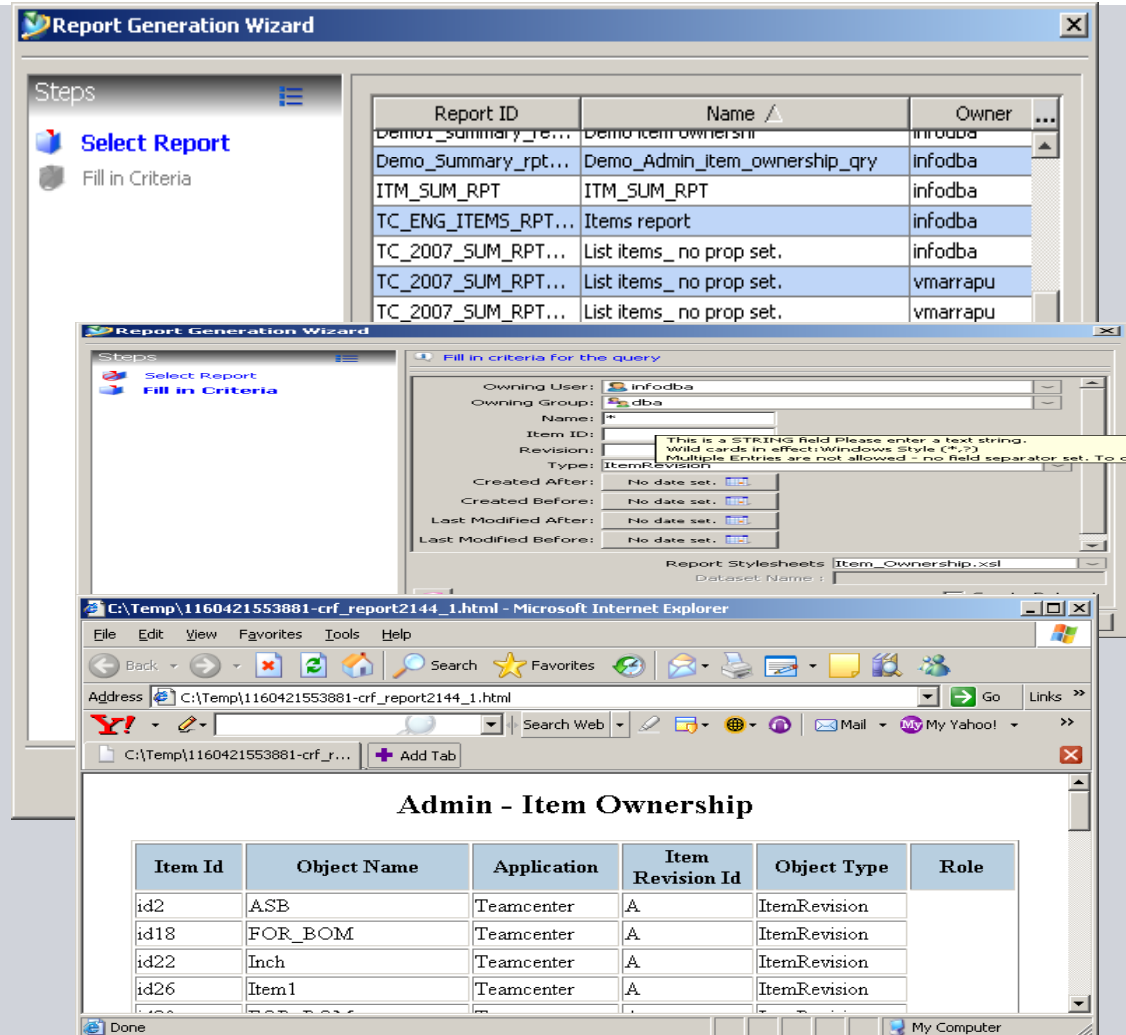
- Every organization uses reporting in one form or another
- Reporting in Teamcenter is a **heavily used** functionality
- There are many ways reporting is exposed
 - **Core reporting framework (CRF)**
 - New reporting engine
 - **Report builder**
 - Rich UI application for constructing complex report templates
 - Convert data into useful information
 - Publish the information securely and reliably

Report Builder Architecture



Summary Reports Generation in Client

- Select report definition
- Fill the generation criteria & select stylesheet
- Launches Application (IE, Excel) to display the result in the application
- Optionally you can Save the report output as a dataset



Item(s) Report Generation in Client

- Select item or item from navigator, search results browser
- Fill the generation criteria & select style sheet
- Launches Application(IE, Excel) display the result in the application
- Optionally you can save the report output as a dataset

The image shows the 'Report Generation Wizard' application window. The 'Steps' pane on the left indicates the current step is 'Fill in Criteria'. The main pane displays a table of available reports:

Report ID	Name	Owner
Demo_Summary_rpt...	Demo_Admin_item_ownership_qry	infodba
ITM_SUM_RPT	ITM_SUM_RPT	infodba
TC_ENG_ITEMS_RPT...	Items report	infodba
TC_2007_SUM_RPT...	List items_no prop set.	infodba
TC_2007_SUM_RPT...	List items_no prop set.	vmarrapu
TC_2007_SUM_RPT...	List items_no prop set.	vmarrapu
A_USERS_SUM_RPT...	List users report	infodba
TC_ENG_OBJECT_R...	Objects with property set & styles...	infodba
TC_ENG_SUM_RPT	Property_set_testing	infodba
RPT_FOR_DATASETS	RPT_FOR_DATASETS	infodba
TC_ENG_SUM_CSU	TC_ENG_SUM_CSU	infodba
b_sum-1	break testing	infodba
TC_ENG_EMP_SUM...	employer report	infodba

Below the table, the 'Fill in criteria for the query' section shows a 'Revision Rule' dropdown menu with the following options:

- Any Status; No Working
- Any Status; Working
- Latest Working
- Latest by Alpha Rev Order
- Latest by Creation Date

The bottom part of the image shows a Microsoft Excel spreadsheet titled '1210949968213-crf_rpt_820_0_16052008_0959.xls'. The spreadsheet displays a 'PS(BOM) Report' with the following details:

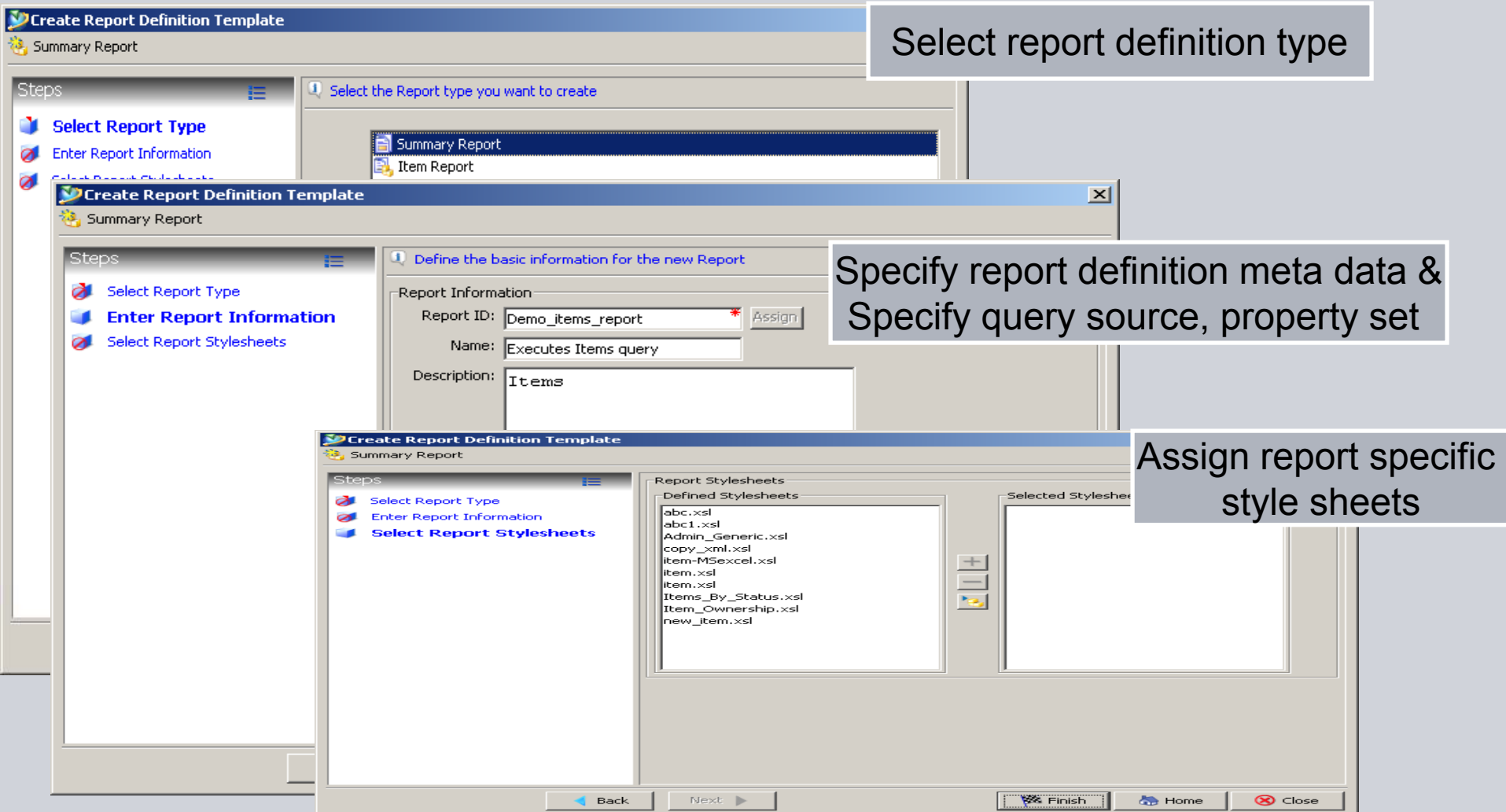
- Revision Rule = Latest Working
- Date: 2008-05-16

Product Id	Product Name	Revision	Owner	Creation Date	Last Modified	Last Mo
/A	top_item	A		2008-03-25T11:52		2008-03-
Sub-Assembly/Part						
Level	Part Number/Rev	Part Name	Description	Quantity	Owner	creator
1	/A	ex1				2008-03-
1	/A	ex2				2008-03-
2	/A	sun_item_ex2				2008-05-

Report Builder

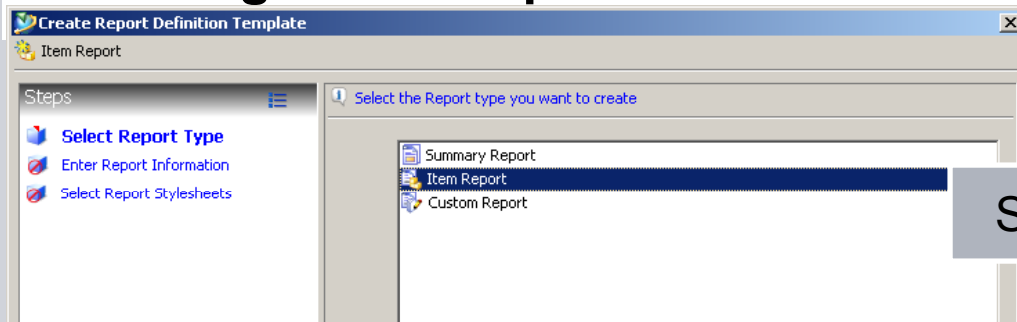
Creating A Summary Report Definition

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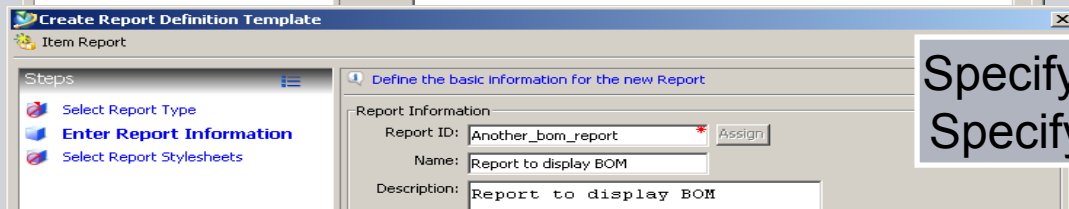


Report Builder

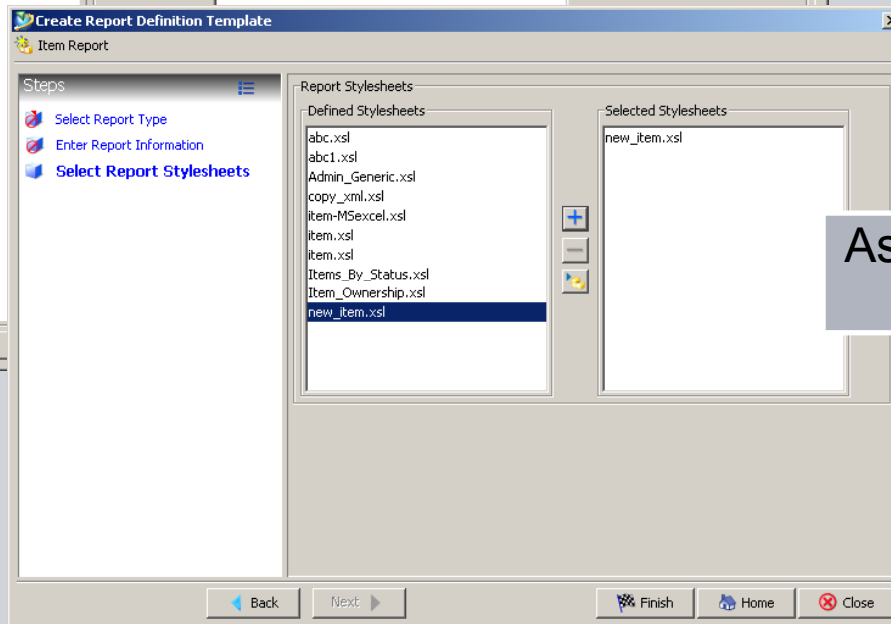
Creating a Item Report Definition



Select report definition type



Specify report definition meta data & Specify transfer mode, property set

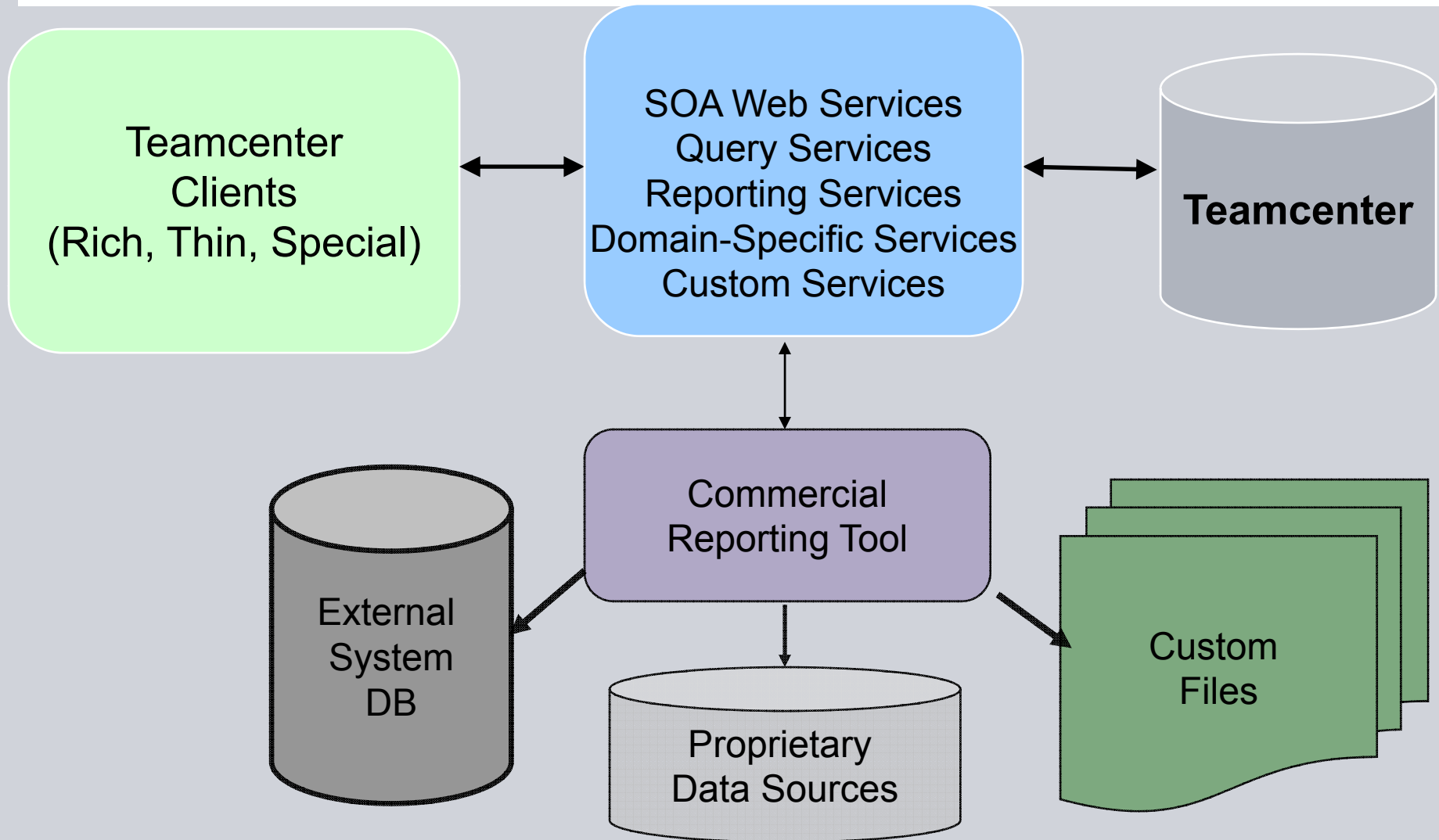


Assign report specific style sheets

Teamcenter Reporting

Integration of third-party Reporting Tools

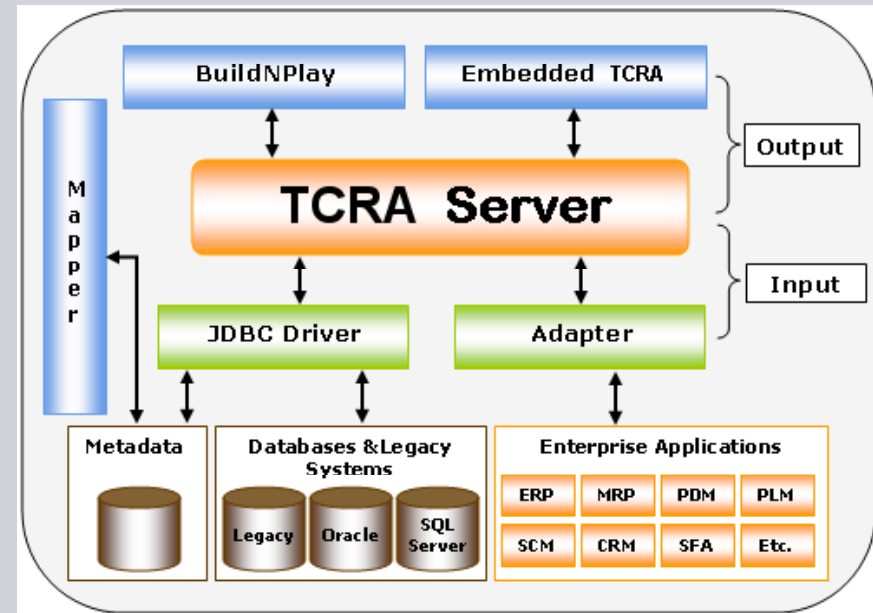
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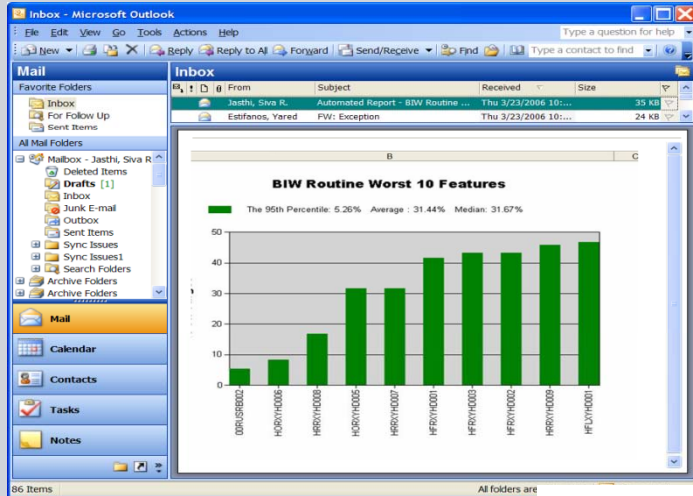
Reporting and Analytics

- Easily viewing the data from various perspectives for decision support
- Enabling easy modification and enhancement of the live system
- Enabling data to be collated across systems for a “single view of data” for decision support
- Leveraging Teamcenter role & access based security including Export Control
- Providing a zero footprint solution
- Available and already proven in Teamcenter

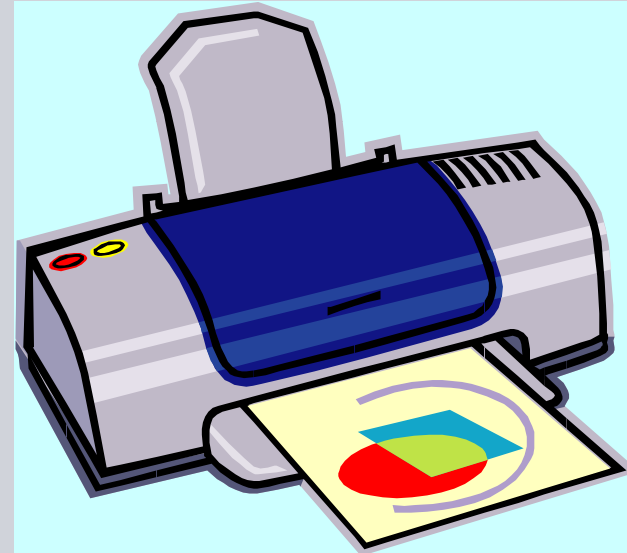


Reporting and Analytics Delivery Options

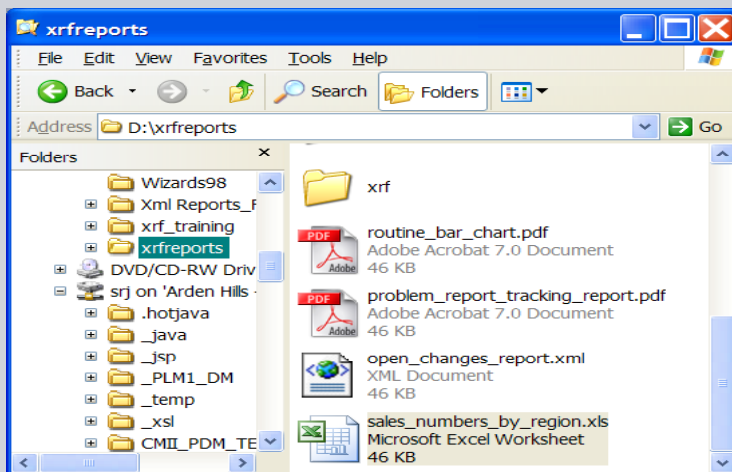
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Email



Printer



File Store

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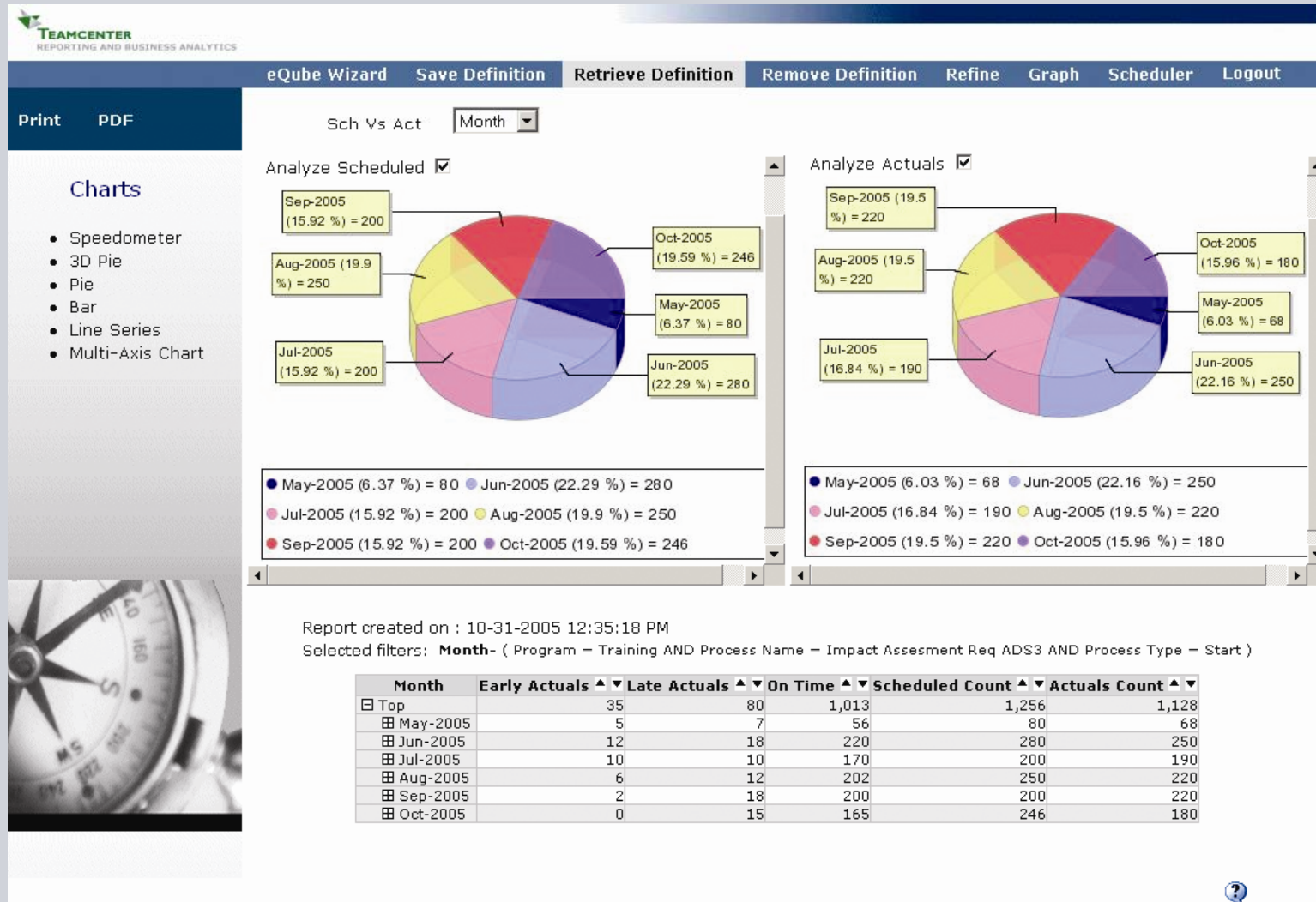
Reporting and Analytics

Graphical Reports – Examples (Contd.)



Reporting and Analytics

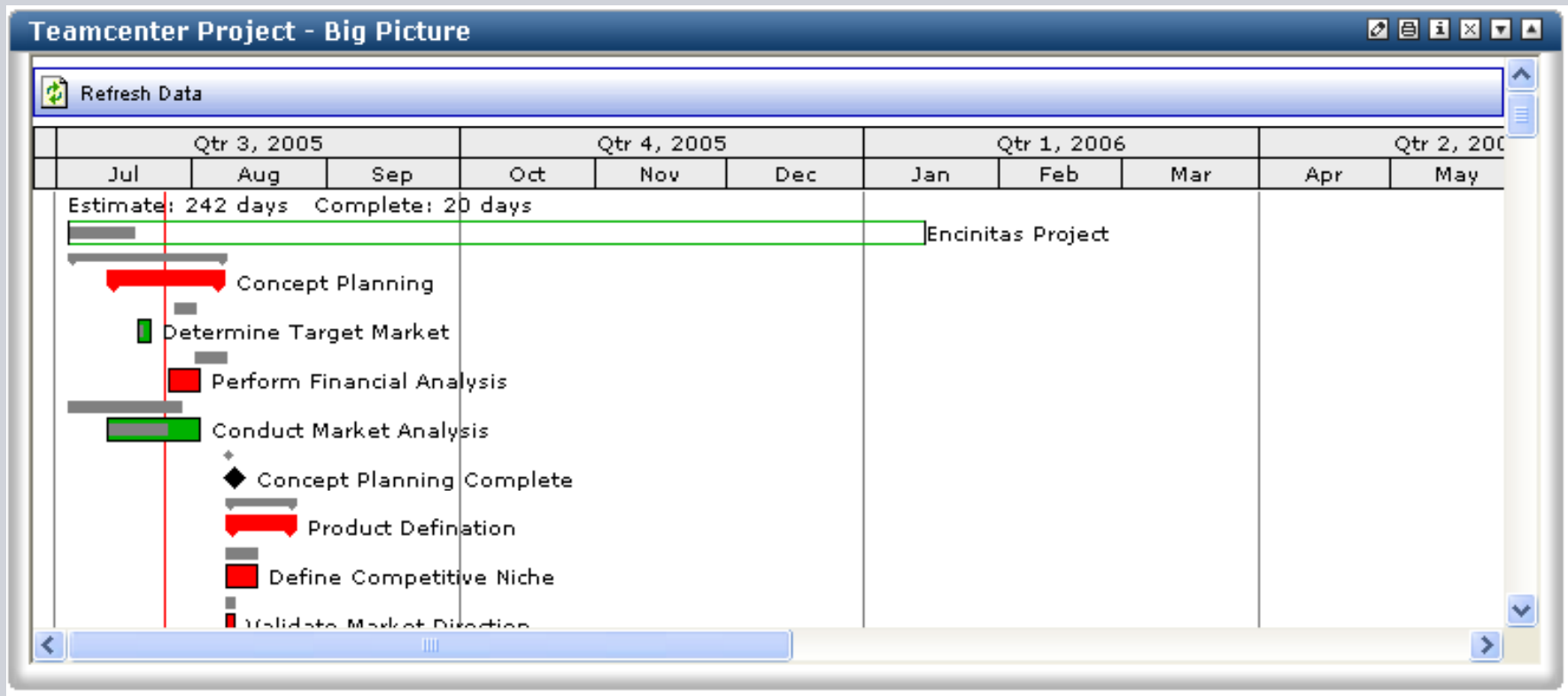
Graphical Reports – Examples (Contd.)



Reporting and Analytics

Graphical Reports – Examples (Contd.)

Cross Workplace Overview including Tasks, Milestones, Baselines, & Task Status

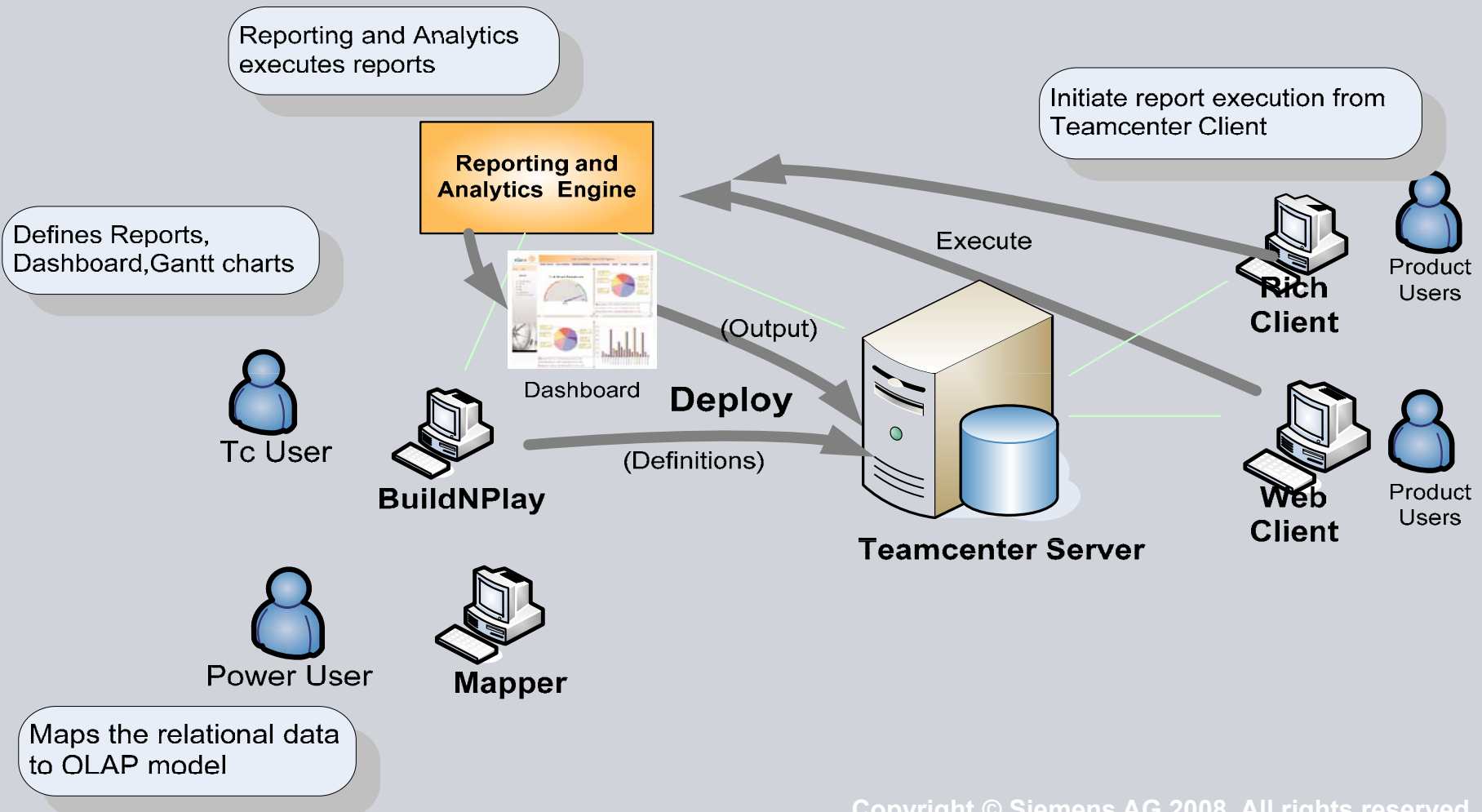


Reporting and Analytics

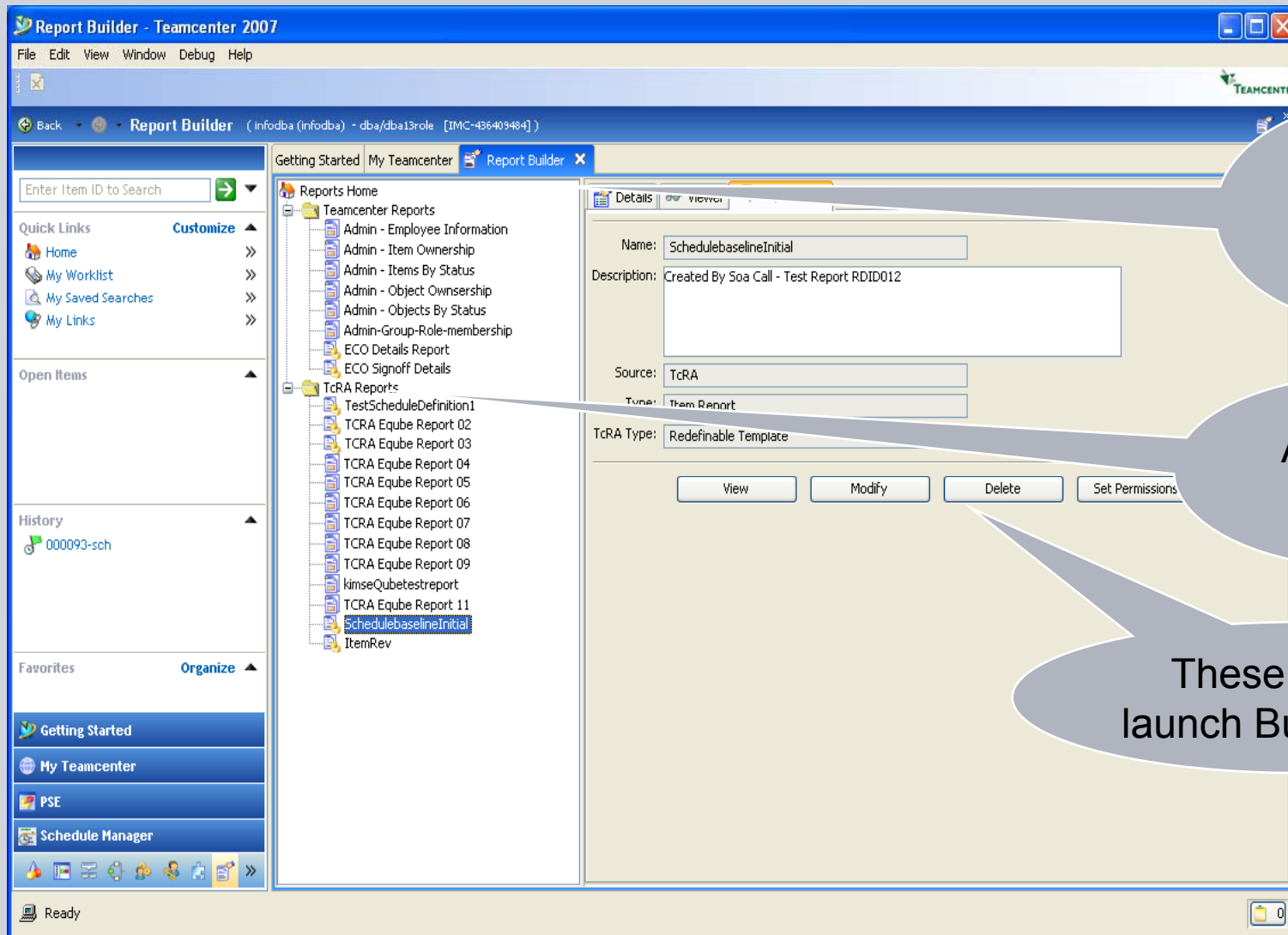
Component Overview

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Teamcenter Reporting & Analytics



Accessing reports in Rich Client



Basic Reports

Advanced Reports

These actions launch Build-n-Play

Viewing Report Definition in Build-n-Play

Teamcenter Reporting and Analytics BuildNPlay - Microsoft Internet Explorer

Admin - Items By Status

Definition Name Admin - Items By Status

Definition Details

Owner	infodba
Type	Redefinable Template
Description	--
Filters Applied	No
Created On	03-14-2007 02:54:24 PM
Last Updated On	03-14-2007 02:54:24 PM
Category	TcRA
Is deployed to TeamCenter?	false
Dimension for Limit from TC	NA
Related Measure for Limit from TC	NA

Data selected for Analysis

Data	Rollup Type	Formula
1. Item ID	No Rollup	
2. Item Revision ID	No Rollup	
3. Object Name	No Rollup	
4. Object Type	No Rollup	
5. Owning Group	No Rollup	
6. Owning User	No Rollup	
7. Date Released	No Rollup	
8. Release Status	No Rollup	

Factors Used In Analysis

Factor	Hierarchy Used	Placement	View Level	Redefinable
Admin - Items By Status	--	ROW:1	--	Y

Close

Executing a Report Definition in Build-n-Play

Existing Definitions

Ad-Hoc

Scheduler

Help

Logout

Report Data

Layout

Results

?

☒

Admin - Items By Status

Created by: infodba
 Created Date: 03/16/2007 11:47:25

Admin - Items By Status	Item ID	Item Revision ID	Object Name	Object Type	Owning Group	Owning User	Date Released	Release Status
000001/A-t	000001	A	t	ItemRevision	dba	infodba (infodba)		
000002/A-t	000002	A	t	ItemRevision	dba	Manish (me)		
000003/A-t	000003	A	t	ItemRevision	dba	Manish (me)		
000004/A-t	000004	A	t	ItemRevision	dba	Manish (me)		
000005/A-t	000005	A	t	ItemRevision	dba	Manish (me)		
000006/A-t	000006	A	t	ItemRevision	dba	Manish (me)		
000007/A-t	000007	A	t	ItemRevision	dba	Manish (me)		
000008/A-t	000008	A	t	ItemRevision	dba	Manish (me)		
000009/A-t	000009	A	t	ItemRevision	dba	Manish (me)		
000010/A-t	000010	A	t	ItemRevision	dba	Manish (me)		

> >>

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Deploying a Report Definition from Build-n-Play

Teamcenter Reporting and Analytics BuildNPlay - Microsoft Internet Explorer

Save definition

Description

Category

☐ Default
☐ TcProjects
☒ TcRA

Retrieve Page

☐ Save definition as snapshot.
☒ Save definition as template.
☐ Save definition as redefinable template.

Deploy To TC
☒

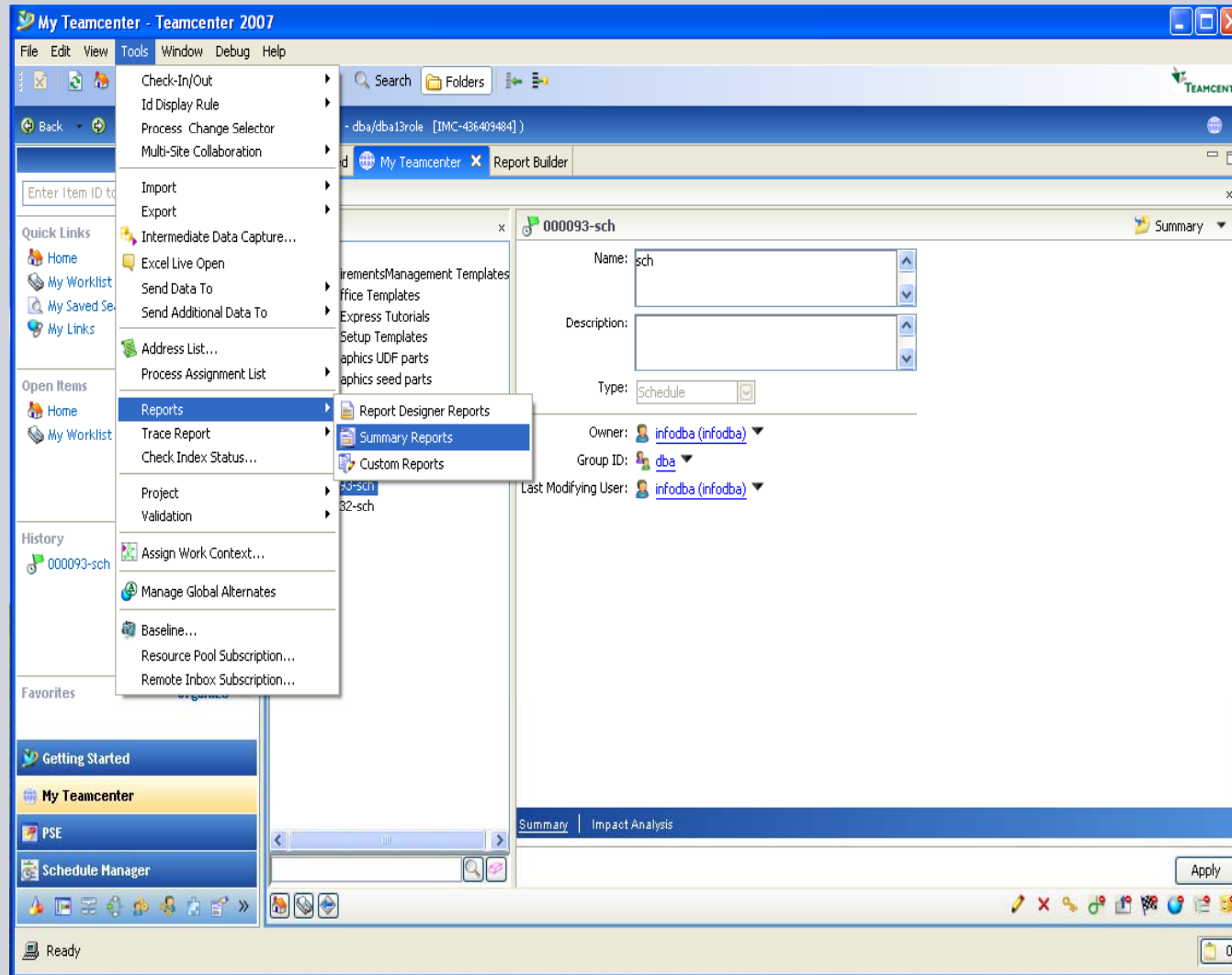
TC Type

ITEM **Class**

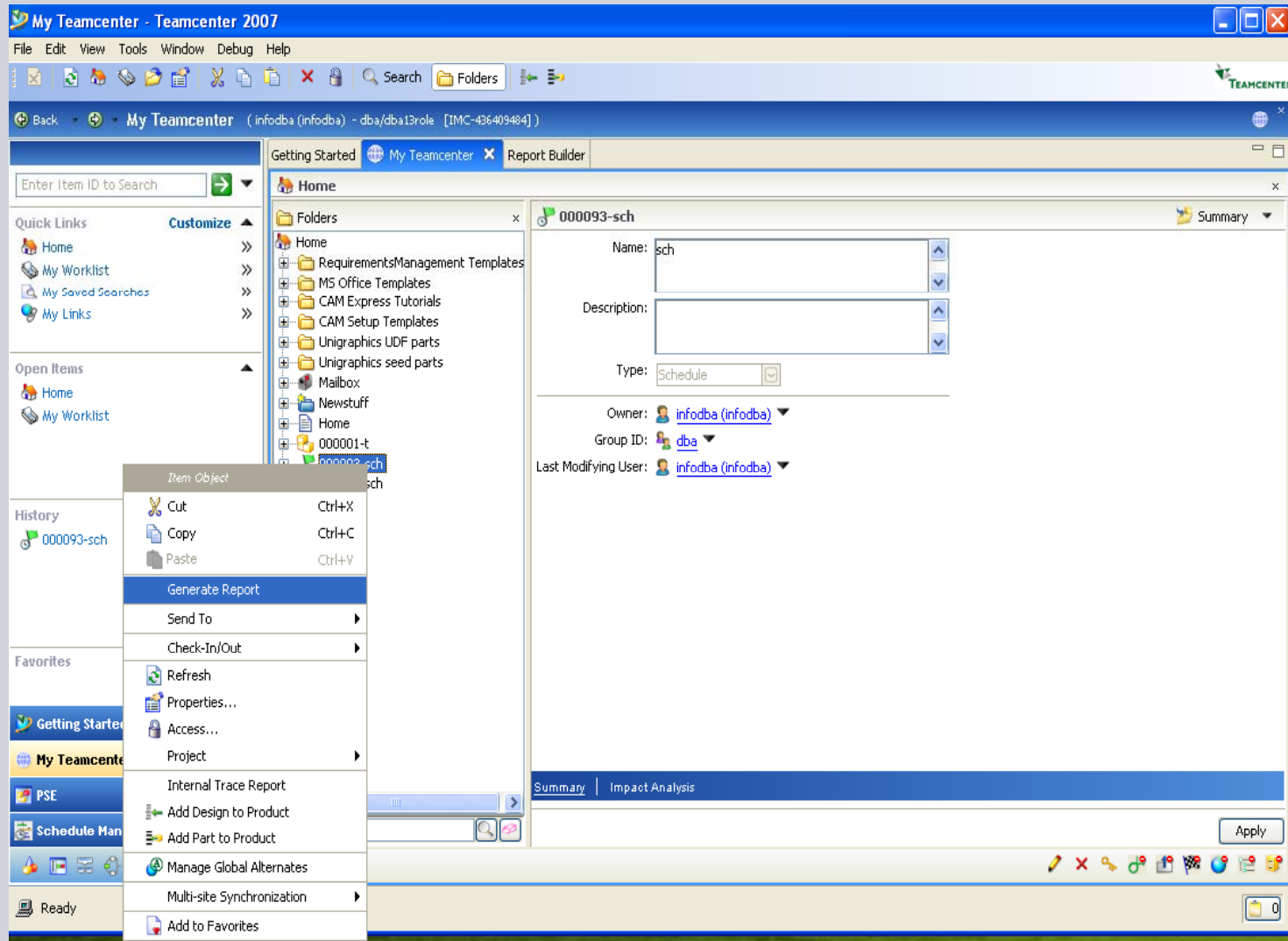
Save Cancel

A report can be deployed as Item Report (context-specific) or Summary Report (context-free)

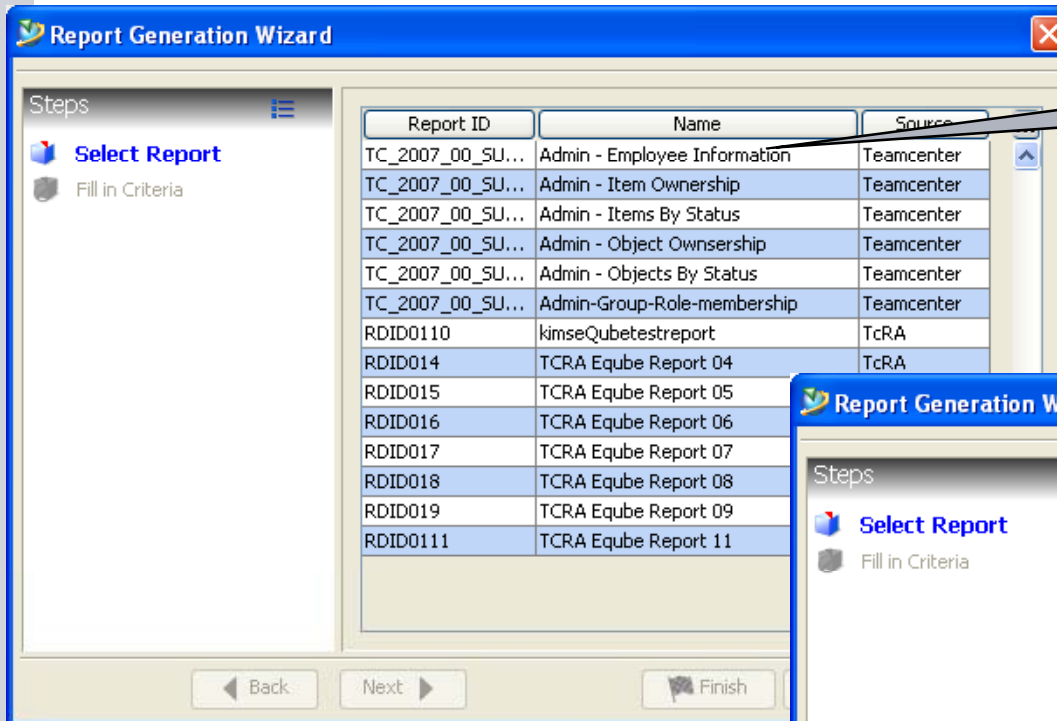
Accessing the list of Summary Reports



Accessing the list of Item Reports for a given selected Item

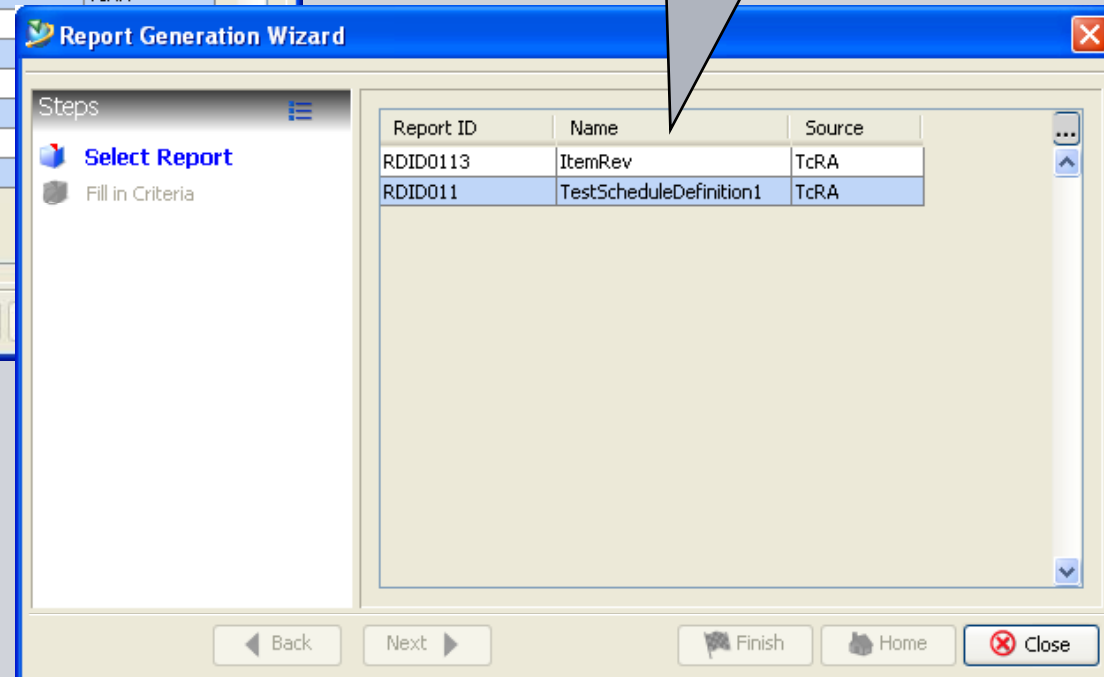


Accessing the list of summary/item reports from Report Builder



Summary Reports

Item Reports



Core Reporting vs. Reporting and Analytics

Core Reporting	Reporting and Analytics
<ul style="list-style-type: none"> ▪ Reports based on data model, queries, and closure rules ▪ Data Extraction through object, relationship, property navigations ▪ Default and custom Stylesheets ▪ HTML, MS Excel (many office document formats), XML, Text Output ▪ Offline execution 	<ul style="list-style-type: none"> ▪ Reporting from Multiple data sources ▪ Graphical reporting - pie, bar, line charts, etc. ▪ Interactive reporting ▪ Scheduling, monitoring of the schedules ▪ Multiple output formats - pdf, HTML, XML, MS Excel) ▪ Multiple delivery options - email, file share, printer. ▪ Caching, snapshots, conditional formatting

Contact

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Thank You

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